

What is claimed is:

- 1 1. A system comprising:
2 a well; and
3 a carousel of tools sealed within the well to automatically and selectively deploy
4 the tools in the well to perform an intervention in the well.
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- 1 2. The system of claim 1, wherein at least one of the tools is adapted to
2 measure a property of the well.
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- 1 3. The system of claim 2, wherein the property comprises a composition of
2 well fluid.
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- 1 4. The system of claim 2, wherein the property comprises a temperature.
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- 1 5. The system of claim 2, wherein the property comprises a pressure.
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- 1 6. The system of claim 1, wherein at least one of the tools is adapted to take
2 corrective action in the well.
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- 1 7. The system of claim 6, wherein at least one of the tools is adapted to set a
2 plug in the well.
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- 1 8. The system of claim 1, wherein at least one of the tools is adapted to take a
2 measurement of a property of the well at a predetermined depth.
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- 1 9. The system of claim 1, wherein at least one of the tools is adapted to
2 deploy sensors at a predetermined depth.
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1 10. A method comprising:
2 halting the flow of fluid in a well;
3 deploying a tool from within the well while the fluid is halted;
4 allowing the tool to free fall in the well while the fluid is halted; and
5 resuming the flow to retrieve the tool.

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1 11. The method of claim 10, further comprising:
2 introducing a delay to allow the tool to reach a given depth.

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1 12. The method of claim 10, further comprising:
2 using the tool to measure a property of the well at a predetermined depth.

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1 13. A method comprising:
2 injecting sensors into a fluid of a well;
3 using the sensors to measure at least one property of the well; and
4 retrieving data from the sensors indicating the measurements.

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1 14. The method of claim 13, wherein the act of retrieving the data comprises:
2 collecting the sensors; and
3 plugging the sensors into equipment to retrieve the data.

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1 15. The method of claim 13, wherein the act of retrieving the data comprises
2 communicating with the sensors as the sensors are flowing in the well.

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1 16. The method of claim 13, wherein the act of injecting the sensors
2 comprises:
3 introducing the sensors into a chemical injection port of the well.

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1 17. The method of claim 13, further comprising:
2 halting flow of the fluid to allow the sensors to descend into the well.

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- 1 18. A system comprising:
2 a well; and
3 a robot sealed in the well to selectively perform an intervention.
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- 1 19. The system of claim 18, wherein the robot comprises a tractor.
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- 1 20. The system of claim 18, wherein the robot is tethered to control
2 electronics.
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- 1 21. The system of claim 20, wherein the electronics are located inside the
2 well.
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- 1 22. The system of claim 20, wherein the electronics are located on a host
2 platform.
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- 1 23. The system of claim 18, wherein the robot is adapted to release a buoyant
2 member to indicate that the robot is lodged in the well.
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- 1 24. The system of claim 18, wherein the robot is adapted to collapse to
2 dislodge itself from a passageway in the well.
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